

10/507095

DT09 Rec'd PCT/PTO 03 SEP 2004

ABSTRACT OF THE DISCLOSURE

A vacuum plasma generator with an output for feeding a plasma discharge for treatment of workpieces in a vacuum chamber has a connection for the junction to AC voltage mains, a rectifier connected to a converter with a control input for the setting and/or regulation of the converter output voltage, and a controlled full bridge circuit connected to the converter output with a potential-free generator output, which transposes the converter output voltage into pulses of 1 to 500 kHz. A potential-isolating transformer is switched into the bridge for the galvanic decoupling of the generator output.